



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

D412-702-343
Job Sheet 174057



Part No: D412-702-343

Job Qty: 1 ea

Part Name: Shoulder Harness, 3-Point Att., Inertia Reel Continuous Belt, 5 Man Fwd



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 3/9/18

Job Tracking No:

Due Date: 3/30/18

Created By: Linda Lacelle

Type: SOLD

Description:

Note: DWG REV A IPP Rev:A new issue DD 10.04.30 verified:EC

Ship Via:

CHG-001

DAS
21
9-80

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup	Run	Workcenter / Supplier	Lead Time	
					hrs	Hrs			
90	Start up Operation	1 Ea		3/30/18	0.00	0.00	Start Up Stores/Pkg-2		MAR 12 2018
105	Packaging	1 pcs		3/30/18	0.00	0.00	Packaging1-4		MAR 12 2018
110	QC	1 pcs		3/30/18	0.00	0.00	QC4		Smb
115	DC	1 pcs		3/30/18	0.00	0.00	DC		
120	Packaging	1 pcs		3/30/18	0.00	0.00	Packaging3-2		Smb
130	QC21-FG	1 Ea		3/30/18	0.00	0.00	QC21		MAR 14 2018

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
AN4-10A	Bolt	4 Ea (4 ea)	90-Start up Operation	
AN4-44A	Bolt	2 Ea (2 ea)	90-Start up Operation	
CR3212-4-4	Cherry Rivet	12 Ea (12 ea)	90-Start up Operation	
D3542-1	Bracket	2 Ea (2 ea)	90-Start up Operation	
D3571-1	Guide	3 Ea (3 ea)	90-Start up Operation	
D3571-3	Guide	2 Ea (2 ea)	90-Start up Operation	
D3578-041	Doubler	6 Ea (6 ea)	90-Start up Operation	
D3610-041	Bracket	2 Ea (2 ea)	90-Start up Operation	
D3618-1	Cap	2 Ea (2 ea)	90-Start up Operation	
D3761-1-041	Hook & Loop Strip	5 Ea (5 ea)	90-Start up Operation	
D412-702-059	Grommets	1 Ea (1 ea)	90-Start up Operation	
D412-702-301	Harness Assembly	1 Ea (1 ea)	90-Start up Operation	
D412-702-303	Harness Assembly	1 Ea (1 ea)	90-Start up Operation	
D412-702-305	Harness Assembly	1 Ea (1 ea)	90-Start up Operation	
D412-702-307	Harness Assembly	1 Ea (1 ea)	90-Start up Operation	
D412-702-309	Harness Assembly	1 Ea (1 ea)	90-Start up Operation	
MS21042L4	Nut	6 Ea (6 ea)	90-Start up Operation	
MS24693-S274	Screw	2 Ea (2 ea)	90-Start up Operation	
MS24694-S56	Screw	3 Ea (3 ea)	90-Start up Operation	
MS24694-S58	Screw	2 Ea (2 ea)	90-Start up Operation	
MS24694-S60	Screw	1 Ea (1 ea)	90-Start up Operation	
NAS1149D0416J	Washer	4 Ea (4 ea)	90-Start up Operation	
NAS1149D0463J	Washer	6 Ea (6 ea)	90-Start up Operation	

QA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table> <tr> <td>Skid-tube ☐</td> <td>Cross tube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>				Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
	Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																		
	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																		
	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																		
Large Fab ☐	Composite ☐	Supplier ☐																				

Date :	Step #:	QTY Effective :	MRB (QSI042) Approval
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Description Work Order Deviation	Disposition

eted By _____
 Supervisor _____
 erification _____
 rdnator _____
 al _____
 1270 Aberdeen Street K7
 Hawkesbury, ON K6A 1K7
 CANADA
 TEL.: 1 813 632-5200
 Email: sales@dartaero.com
 www.dartaerospace.com

Container No: S050008
 Part: D412-702-343
 Job No: 174057
 Serial No/Batch: S050008
 Revision: _____
 Inspector: _____

Date: 03/12/18

Root Cause		FAULT CATEGORY	
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐
OTHER : _____		Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	

Job Allocations				
Operation	Component Part	Required	Inventory	Allocated
90-Start up Operation	AN4-10A	4	99	0
	AN4-44A	2	17	0
	CR3212-4-4	12	342	0
	D3542-1	2	3	0
	D3571-1	3	0	0
	D3571-3	2	0	0
	D3578-041	6	7	0
	D3610-041	2	3	0
	D3618-1	2	106	0
	D3761-1-041	5	15	0
	D412-702-059	1	3	0
	D412-702-301	1	1	0
	D412-702-303	1	1	0
	D412-702-305	1	0	0
	D412-702-307	1	0	0
	D412-702-309	1	1	0
	MS21042L4	6	3,513	0
	MS24693-S274	2	32	0
	MS24694-S56	3	60	0
	MS24694-S58	2	104	0
	MS24694-S60	1	95	0
	NAS1149D0416J	4	3,244	0
	NAS1149D0463J	6	4,644	0
Part Specifications				
Specifications could not be found.				

Plex 3/9/18 1:40 PM dart.lacelle.linda

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					



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Canada

Tel (613) 632-5200

Container View (Active) - Master Unit Containers

Master Unit No	Container No	Part No	Part Name	From Container	Current Location	Quantity
001558	S049743	AN4-10A	Bolt	F156935	FG029	4
001558	S049747	AN4-44A	Bolt	F156935	FG029	2
001558	S049993	CR3212-4-4	Cherry Rivet	s049748	FG029	12
001558	S049756	D3542-1	Bracket	F156935	FG029 145 834	2
001558	S049992	D3571-1	Guide	s049757	FG029 145 608 SK	3
001558	S049758	D3571-3	Guide	F156935	FG029 146 898x	2
001558	S049991	D3578-041	Doubler	S018682	ST040	6
001558	S049761	D3610-041	Bracket	F156935	FG029 148 696	2
001558	S049762	D3618-1	Cap	F156935	FG029	2
001558	S049990	D3761-1-041	Hook & Loop Strip	s049763	FG029	5
001558	S049731	D412-702-059	Grommets	F156935	FG029 146 875	1
001558	S049989	D412-702-301	Harness Assembly	s049732	FG029 145 749	1
001558	S049988	D412-702-303	Harness Assembly	s049733	FG029 145 779	1
001558	S049734	D412-702-305	Harness Assembly	F156935	FG029 148 722	1
001558	S049735	D412-702-307	Harness Assembly	F156935	FG029 148 835	1
001558	S049736	D412-702-309	Harness Assembly	F156935	FG029 147 627	1
001558	S049987	MS21042L4	Nut	s049749	FG029	6
001558	S049750	MS24693-S274	Screw	F156935	FG029	2
001558	S049751	MS24694-S56	Screw	F156935	FG029	3
001558	S049986	MS24694-S58	Screw	s049752	FG029	2
001558	S049753	MS24694-S60	Screw	F156935	FG029	1
001558	S049754	NAS1149D0416J	Washer	F156935	FG029	4
001558	S049985	NAS1149D0463J	Washer	s049755	FG029	6

147346x3
148699x1
148685

Note: Ad hoc query view of Part.dbo.Container where Container.Active = 1.

Plex 3/12/18 8:53 AM dart.quirion.sonia

QTY -337	QTY -341	QTY -343	QTY -345	QTY -347	QTY -349	QTY -351	Part Number	Description
X							D214-702-337	Dart 5-Man 3 Point Aft Facing Shoulder Harness Kit, for 214 Aircraft
	X						D412-702-341	Dart 13-Man 3-Point Shoulder Harness Kit
		X					D412-702-343	Dart 5-Man 3-Point Forward Facing Shoulder Harness Kit
			X				D412-702-345	Dart 4-Man 3-Point Aft Facing Shoulder Harness Kit
				X			D412-702-347	Dart 4-Man 3-Point Side Facing Shoulder Harness Kit
					X		D412-702-349	Dart 1-Man 3-Point Forward Facing Shoulder Harness Kit
						X	D412-702-351	Dart 1-Man 3-Point Shoulder Harness Kit
	1	1		1	1		D412-702-059	GROMMET KIT
	2	1		1			D412-702-301	HARNESS ASSEMBLY
	2	1		1			D412-702-303	HARNESS ASSEMBLY
	1	1			1		D412-702-305	HARNESS ASSEMBLY
	1	1				1	D412-702-307	HARNESS ASSEMBLY
	1	1					D412-702-309	HARNESS ASSEMBLY
1	1		1				D412-702-311	HARNESS ASSEMBLY
1	1		1				D412-702-313	HARNESS ASSEMBLY
	1			1			D412-702-315	HARNESS ASSEMBLY
	1			1			D412-702-317	HARNESS ASSEMBLY
1							D412-702-319	HARNESS ASSEMBLY
1	1		1				D412-702-321	HARNESS ASSEMBLY
1	1		1				D412-702-323	HARNESS ASSEMBLY
	2	2				1	D3542-1	BRACKET
	7	3		4	1		D3571-1	GUIDE
	2	2				1	D3571-3	GUIDE
	2		2				D3572-041	GUIDE ASSEMBLY
	12	6		6	2		D3578-041	DOUBLER
	2	2				1	D3610-041	BRACKET
	2	2				1	D3618-1	CAP
				2			D3677-1	SPACER
	9	5		4	1	1	D3761-1-041	HOOK AND LOOP STRIP
1							D3920-041	SEATBELT GUIDE ASSEMBLY
2							D3920-5	SEATBELT GUIDE
	4	4				2	AN4-10A	BOLT
1	2		2				AN4-16A	BOLT
1							AN4-21A	BOLT
7	4		4				AN4-25A	BOLT
	4		4				AN4-27A	BOLT
	2	2				1	AN4-44A	BOLT
18	26	6	20			3	AN960JD416	WASHER (OR NAS1149D0463J)
	4	4				2	AN960JD416L	WASHER (OR NAS1149D0416J)
	24	12		12	4		CR3212-4-4	RIVET
9	12	6	6			3	MS21042L4	NUT (OR MS21042-4)
				6			MS21069L3	ANCHOR NUT
	2	2				1	MS24693S274	SCREW
				2			MS24694S282	SCREW
	3	3			1		MS24694S56	SCREW
	10	2		8			MS24694S58	SCREW
	1	1			1		MS24694S60	SCREW

Change Record

Part Number D412-702-343
Description 5 MAN SHOULDER HARNESS, 3 POINT, FWD FACING

Page 1 of 1[illegible]

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER :							
Misidentified ☐	Past Due ☐								